

We Claim:

1. A device for examining liquids, comprising:

a structural device;

an evaluation device integrated in said structural device,  
said evaluation device having a data memory, a voltage supply  
unit, a display device, an operating system, a processor, and  
components for a mobile radio function;

an interface module integrated in said structural device, said  
interface module having at least one voltage regulator, a  
preamplifier and a processor;

at least one exchangeable sensor connected to said evaluation  
device through said interface module, said exchangeable sensor  
formed as a card and having at least one measuring device, a  
sample receiving channel, a heating element, a temperature  
sensor and a coding device, said exchangeable sensor  
electrically and mechanically connected to said structural  
unit in an inserted state; and

serial electrical plug-in connections disposed on said  
interface module and said exchangeable sensor for connecting  
said interface module to said exchangeable sensor.

2. The device according to claim 1, further comprising:

an electrical conductor track connecting said voltage regulator to said voltage supply unit; and

a serial data line connecting said processor of said interface module to said data memory of said evaluation device.

3. The device according to claim 1,

further comprising signal lines;

wherein said preamplifier has a signal output; and

wherein said processor of said interface module has signal inputs connected to said signal output of said preamplifier, said signal inputs further connected to said temperature sensor and said coding device through said signal lines and said serial electrical plug-in connections.

4. The device according to claim 1, wherein:

said measuring device has electrodes and a signal output;

said preamplifier has an input;

said exchangeable sensor has a signal line connected between said signal output of said measuring device and one of said series electrical plug-in connections, said signal output connected to said input of said preamplifier through said signal line and said one of said series electrical plug-in connections; and

said exchangeable sensor has electrical conductor tracks connected between said heating element and said serial electrical plug-in connections and between said electrodes and said serial electrical plug-in connections, said heating element and said electrodes connected to said voltage regulator through said electrical conductor tracks and said serial electrical plug-in connections.

5. The device according to claim 1, wherein said coding device contains details concerning a measuring range, measuring parameters, a number of measurements which can still be performed and have already been carried out, a batch number, a date of manufacture and a service life of said exchangeable sensor.